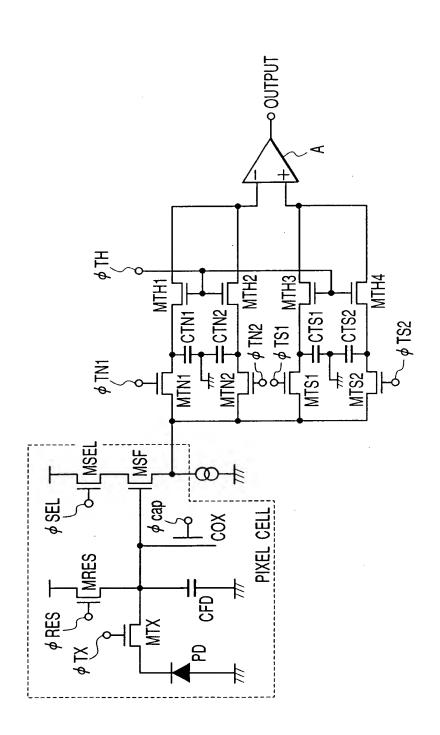
FIG. 1



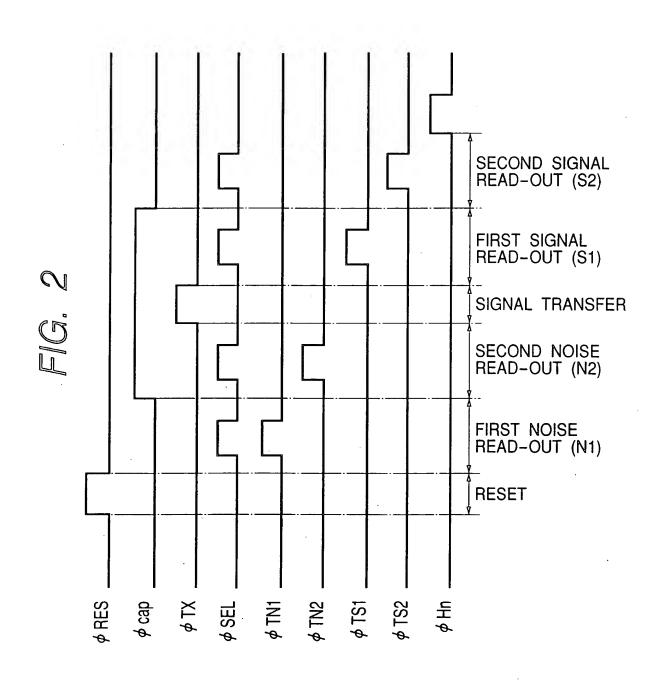
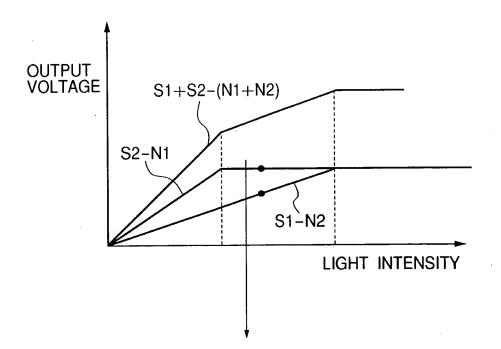
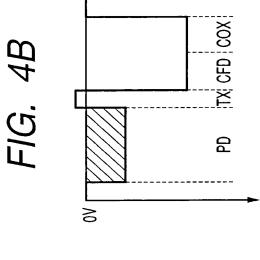


FIG. 3





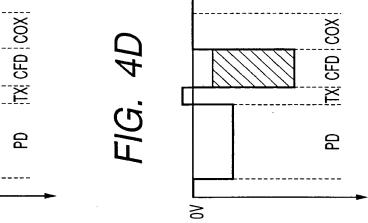


FIG. 4C

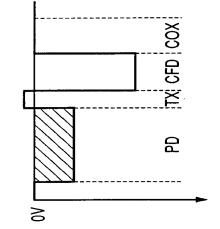
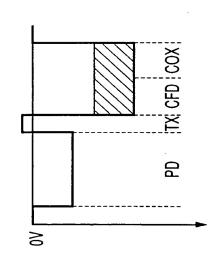


FIG. 4A



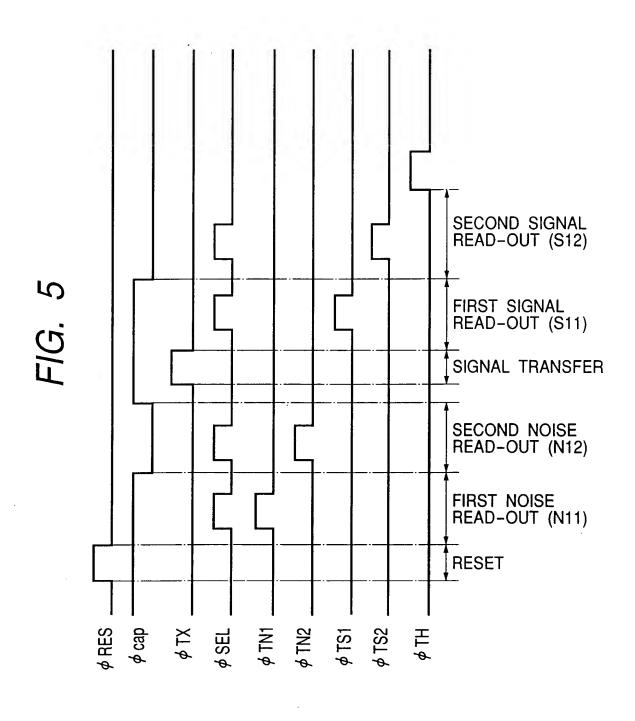


FIG. 6

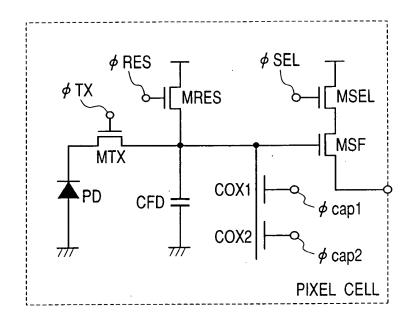
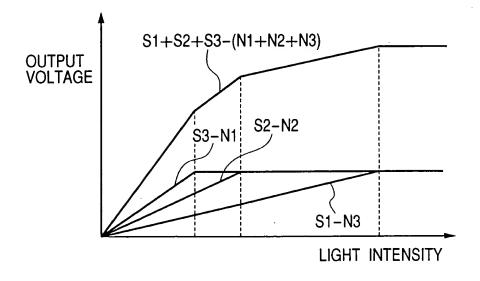


FIG. 8



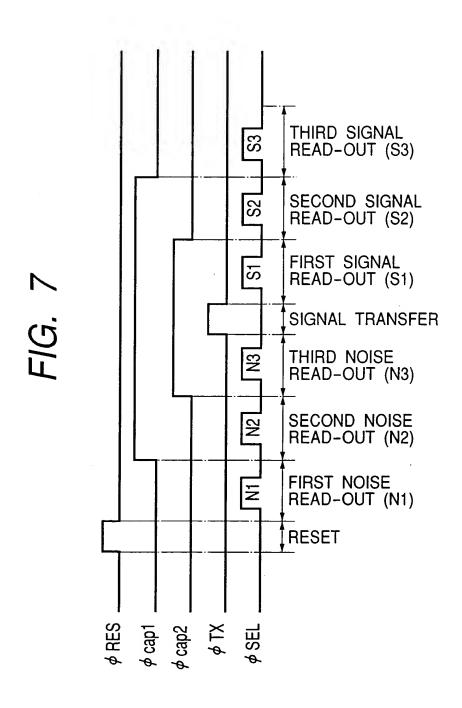


FIG. 9

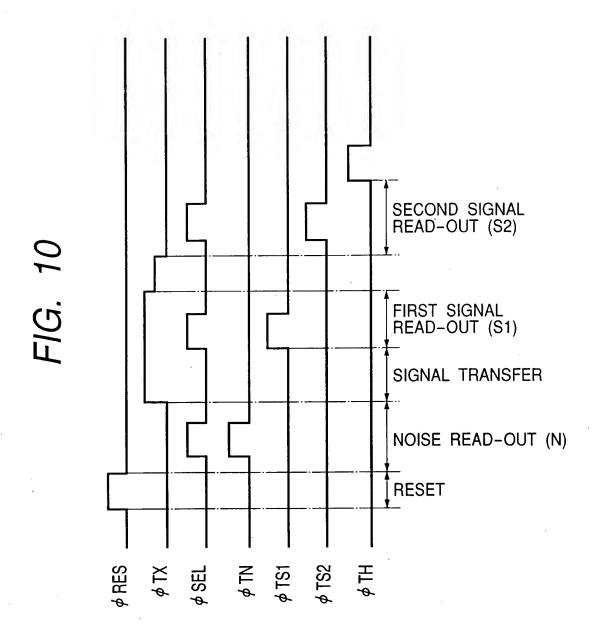
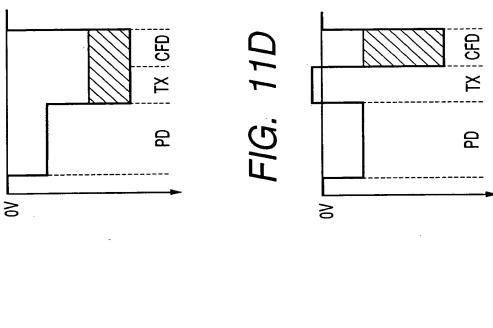


FIG. 11B





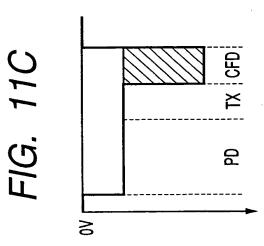
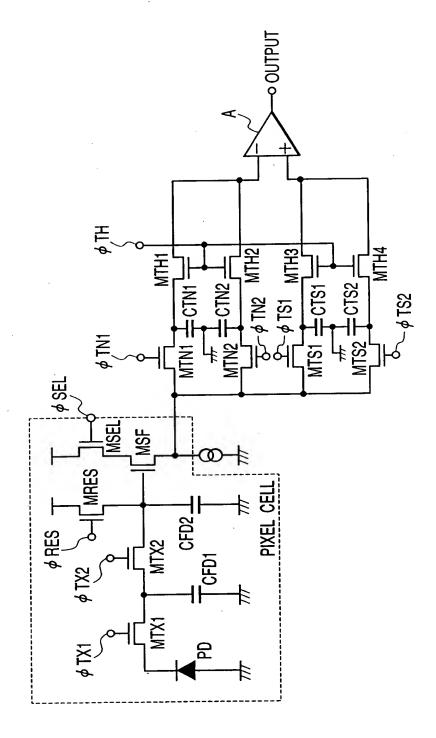
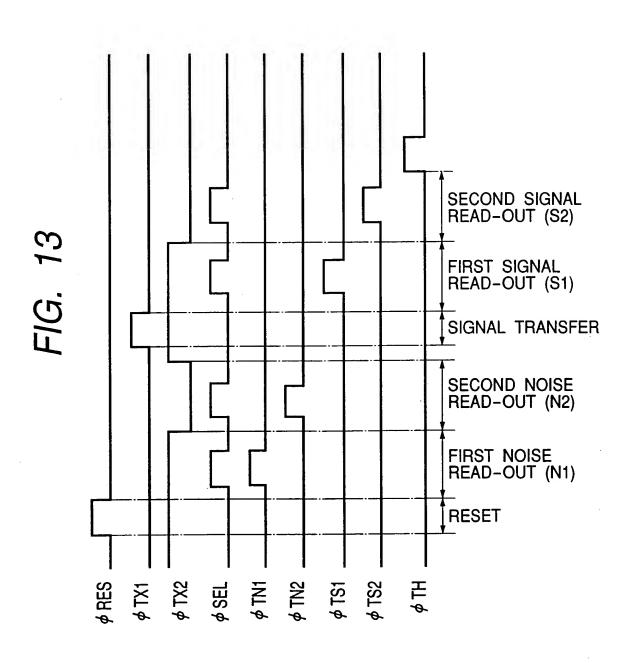
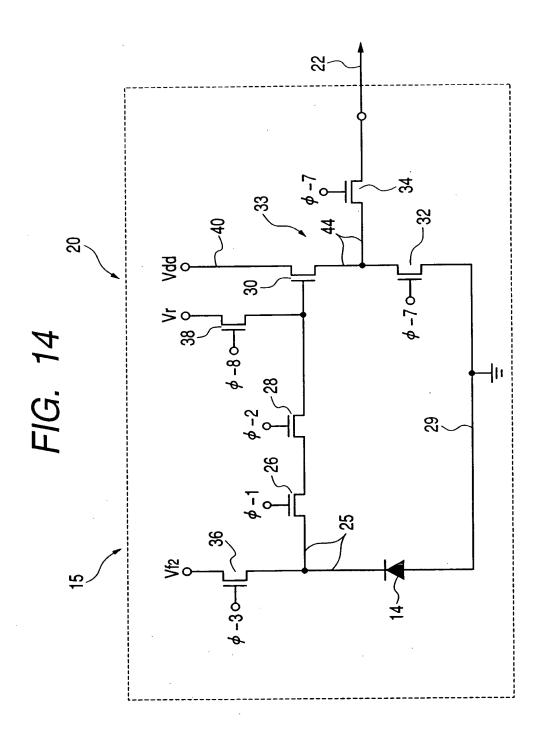
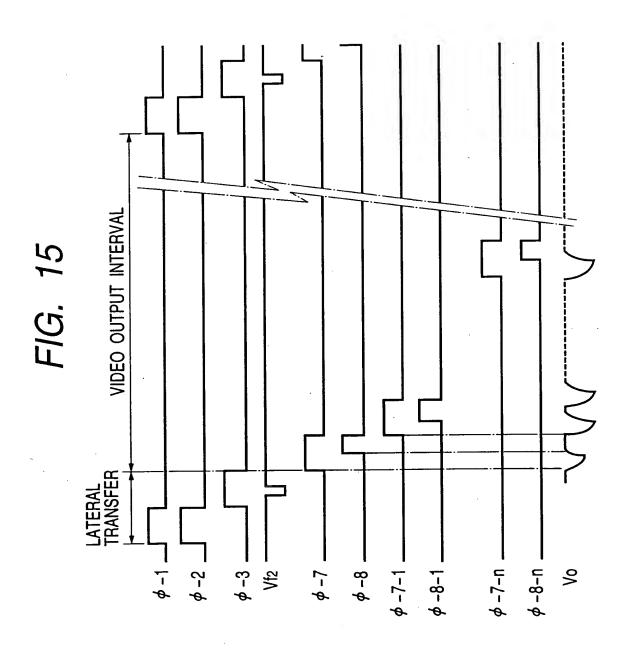


FIG. 12



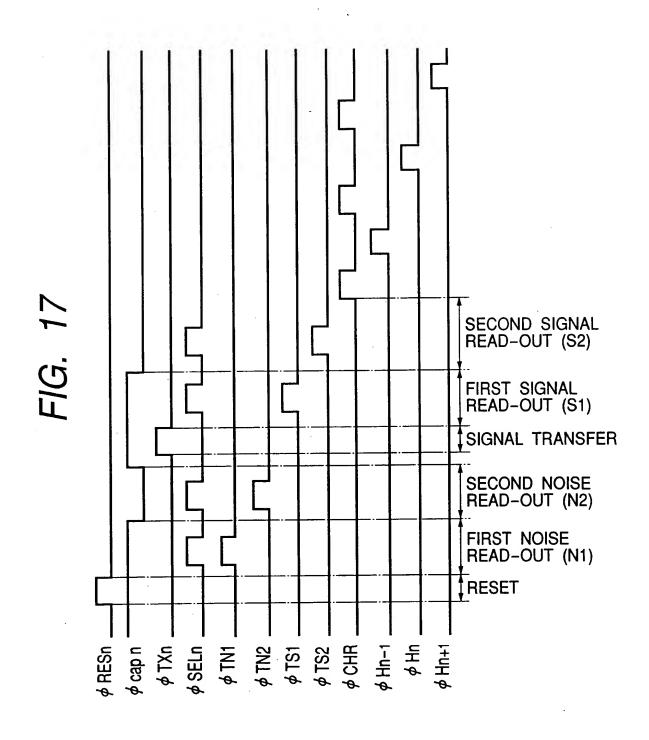






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FIG. 16 φ RESn−1 **φ** TXn-1 φ SELn−1 ϕ cap n-1 φ RESn _100 ϕ TXn **VERTICAL** φ SELn SCANNING CIRCUIT ϕ cap n φ RESn+1 φ TXn+1 φ SELn+1 ϕ cap n+1 ϕ TN1 - **∮** TN2 φ TS1 φ TS2 HIMIH HIMIH MCHR1]H MCHR2 ~ φ CHR **~** OUTPUT Hn Hn+1 Hn-1 -101 HORIZONTAL SCANNING CIRCUIT



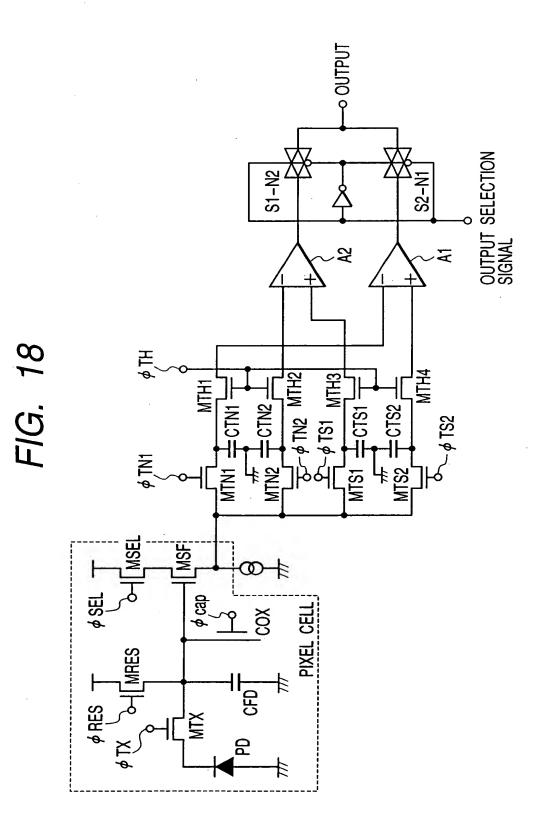


FIG. 19

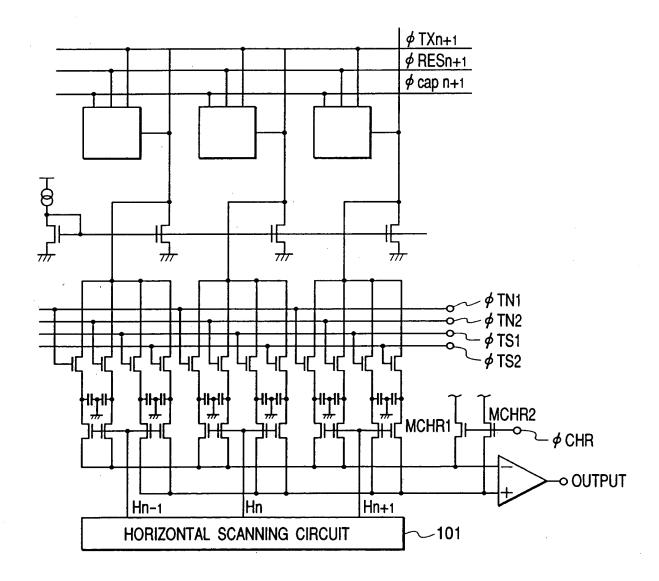
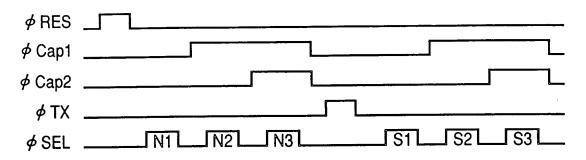


FIG. 20



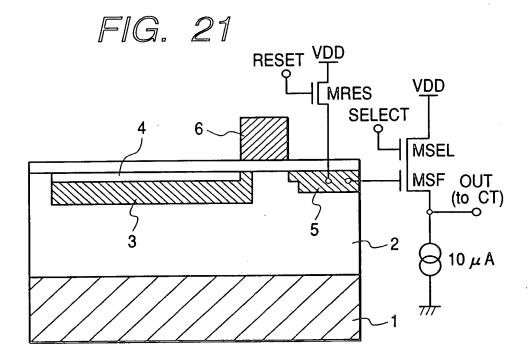


FIG. 22

FIG. 23A

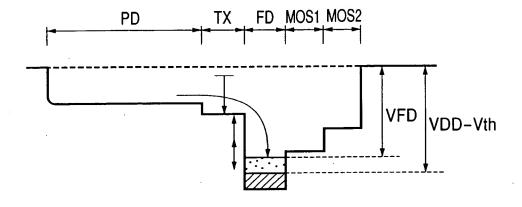


FIG. 23B

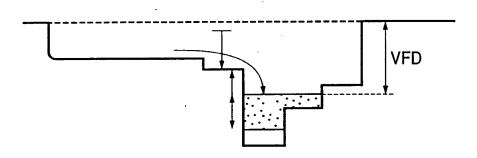


FIG. 23C

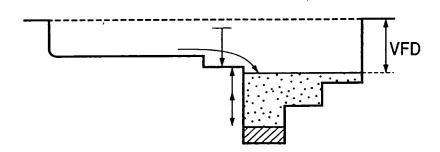


FIG. 24A

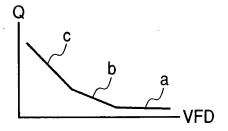


FIG. 24B

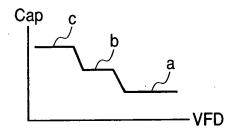


FIG. 24C

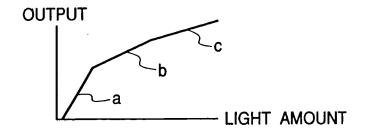


FIG. 25A

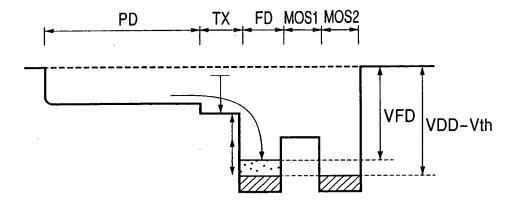


FIG. 25B

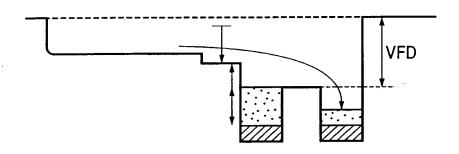


FIG. 25C

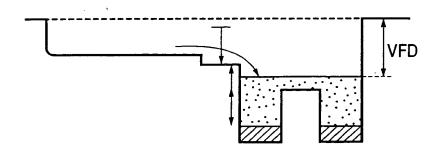


FIG. 26A

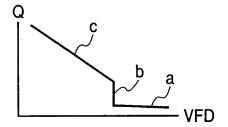


FIG. 26B

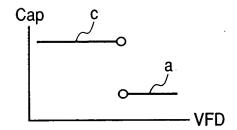


FIG. 26C

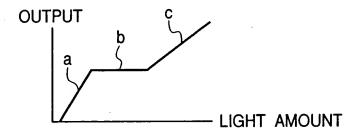


FIG. 27

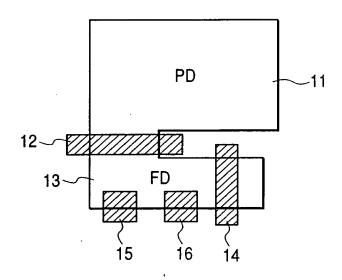


FIG. 28

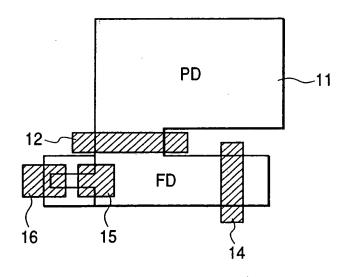


FIG. 29

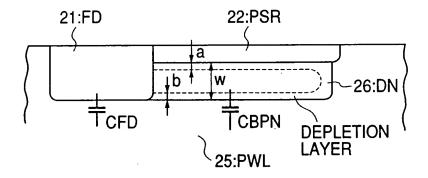


FIG. 30

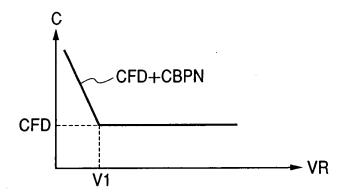


FIG. 31

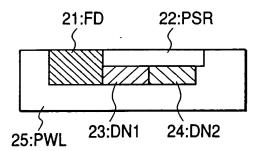


FIG: 32

PD

12

BPN3 BPN2

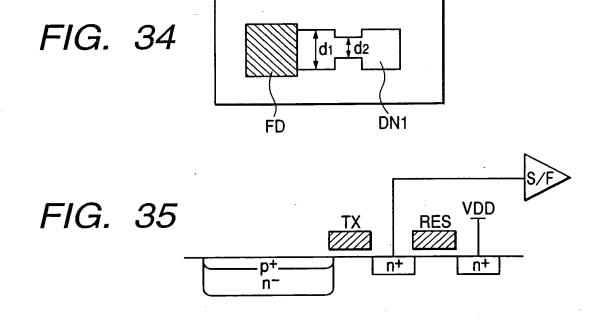
FD

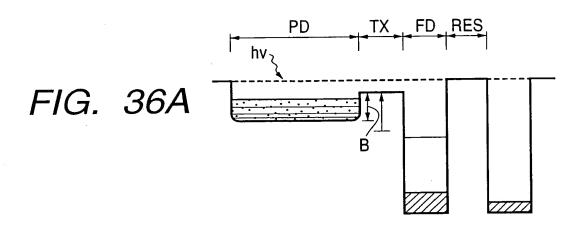
BPN1

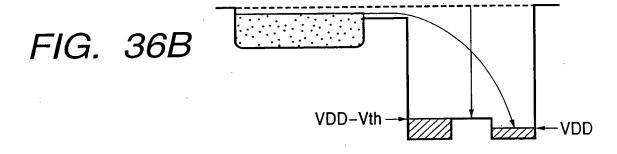
23 22

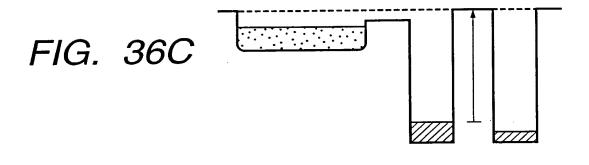
13 14

FIG. 33









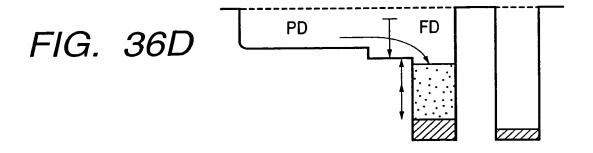


FIG. 37A

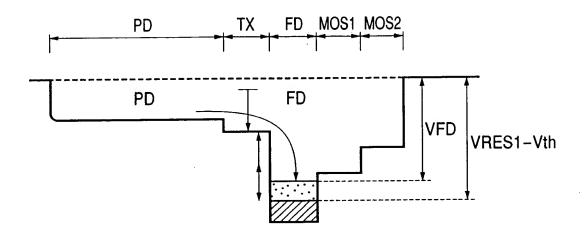


FIG. 37B

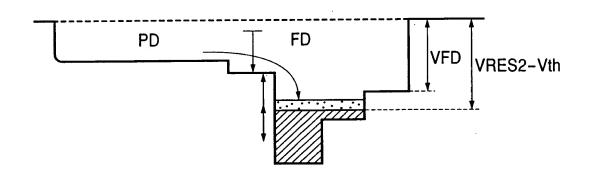
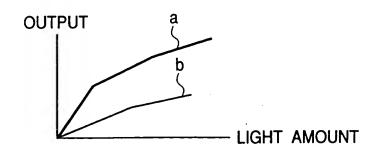


FIG. 38



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FIG. 39

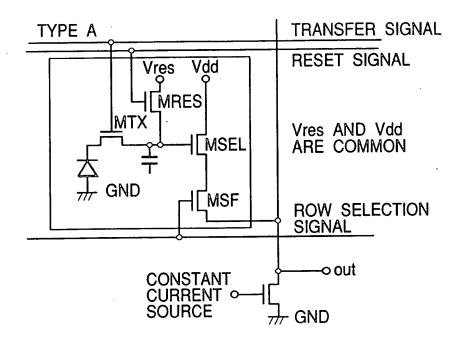
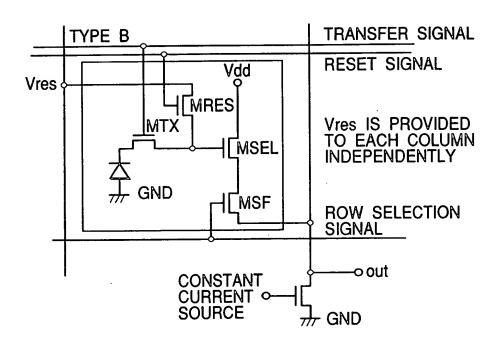
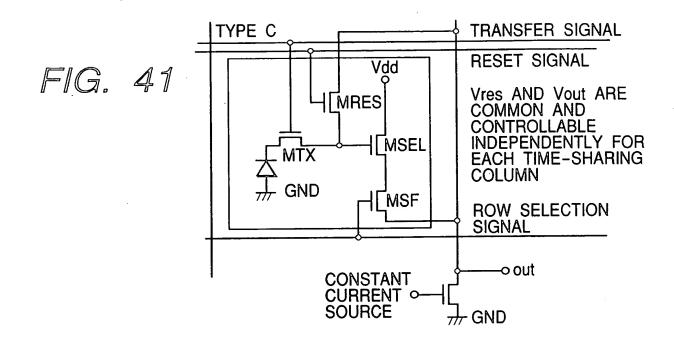
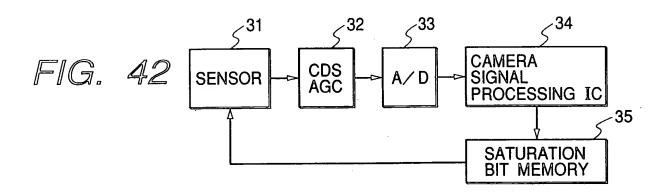


FIG. 40







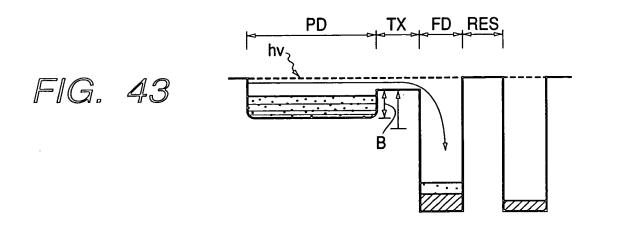


FIG. 44

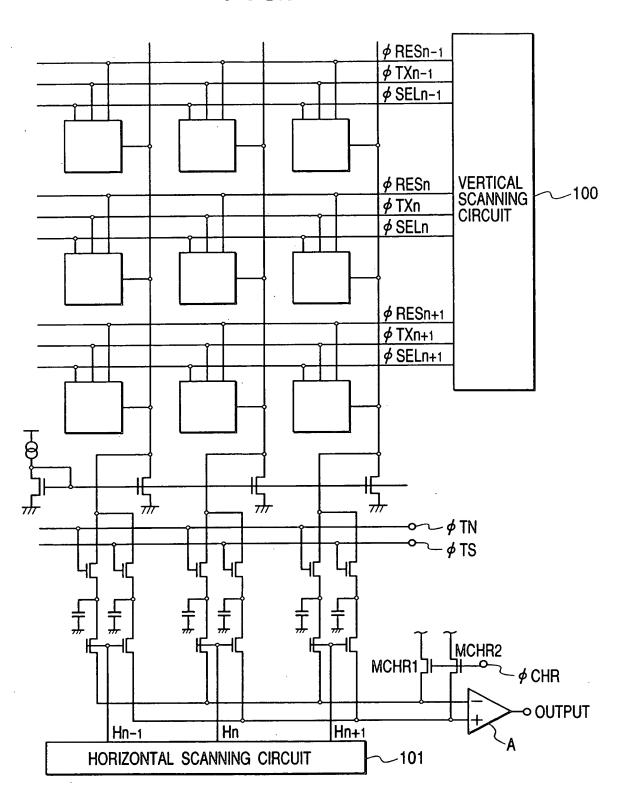


FIG. 45

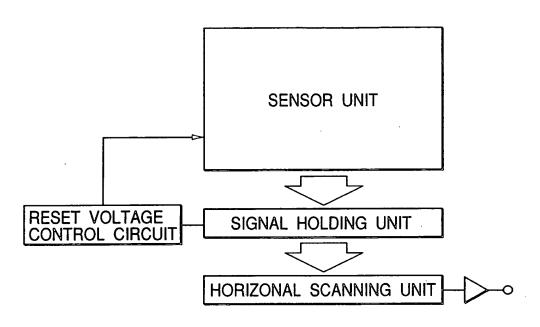
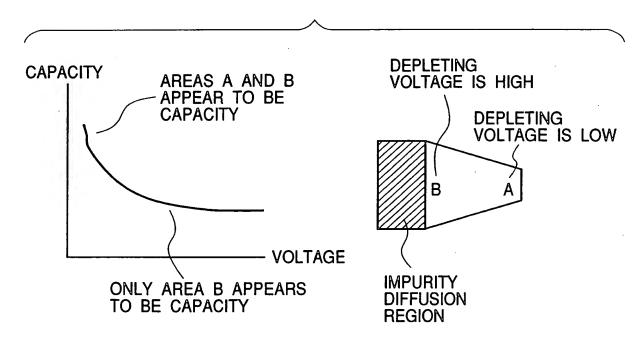
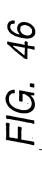
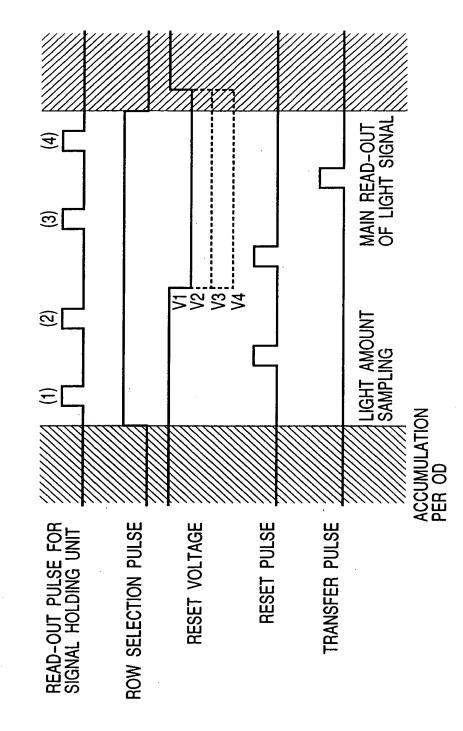
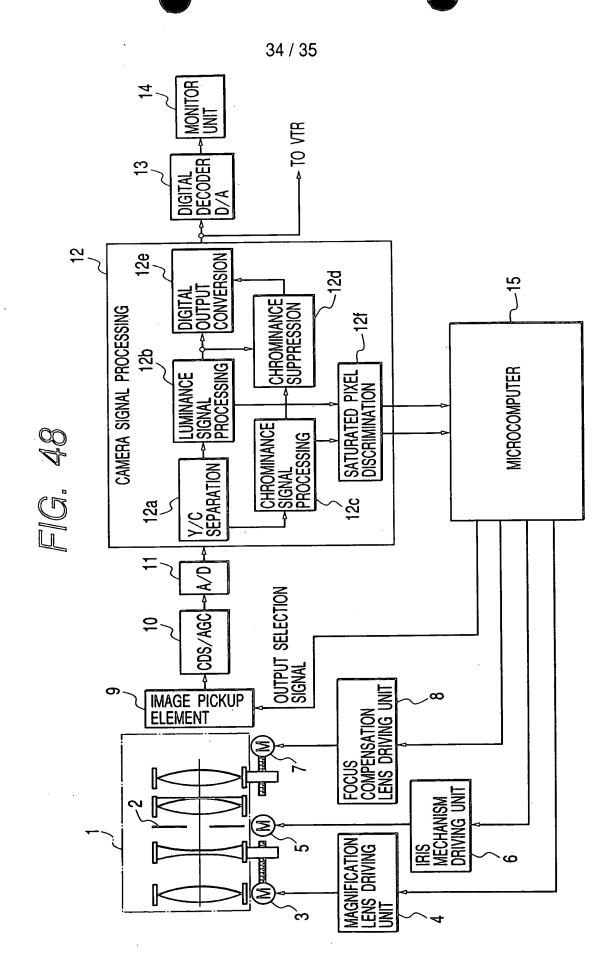


FIG. 47













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